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  DIALOG(R)File 351:Derwent WPI
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  013259792
               **Image available**
  WPI Acc No: 2000-431675/200037
 XRPX Acc No: N00-322109
  Optical transmitter-receiver module has waveguides extending from receiver-chip to
 transmitter-chip, via grooves at bottom surface of receiver-chip
 Patent Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF )
 Inventor: FROEJDH K
 Number of Countries: 092 Number of Patents: 010
 Patent Family:
 Patent No
               Kind
                      Date
                              Applicat No
                                             Kind
                                                    Date
                                                             Week
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               A1 20000622
                              WO 99SE2366
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 KR 2001082343 A
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Priority Applications (No Type Date): SE 984383 A 19981215
Patent Details:
Patent No Kind Lan Pg
                         Main IPC
                                     Filing Notes
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   Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
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   KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
   SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
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                                     Based on patent WO 200036448
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SE 514478
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TW 416017
             Α
                      G02B-006/42
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                      H04B-010/02
EP 1188085 - A1 E
                      G02B-006/43
                                    Based on patent WO 200036448
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           Α
                      G02B-006/43
JP 2002532747 W
                   13 G02B-006/122 Based on patent WO 200036448
US 6625369
             B1
                      G02B-006/42
Abstract (Basic): WO 200036448 A1
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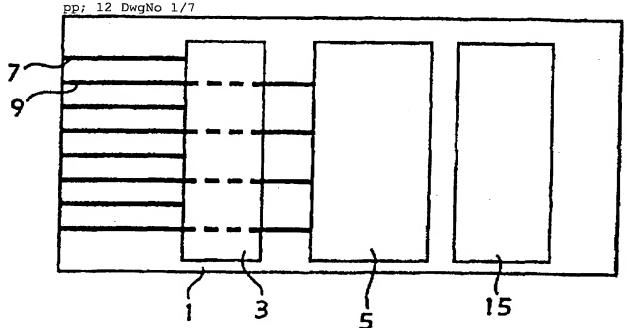
NOVELTY - The waveguides (7) extend from the front edge of substrate (1) and end at edge of receiver chip (3). The waveguides (9) extending to the transmitter chip (5) pass through the grooves at the bottom surface of the receiver chip. The waveguides extend in parallel, on the front edge of the substrate.

USE - For optical transmitters and receivers in same array device with small total area.

ADVANTAGE - Arrangement design of the waveguides allows a straight configuration of the waveguides. Since no space on the substrate is required for bends of the waveguides, the substrate can be made with minimum dimensions.

DESCRIPTION OF DRAWING(S) - Figure shows a schematic view of substrate comprising integrated waveguides and transmitter and receiver chip.

Substrate (1)
Receiver chip (3)
Transmitter chip (5)
Waveguides (7,9)



Title Terms: OPTICAL; TRANSMIT; RECEIVE; MODULE; WAVEGUIDE; EXTEND; RECEIVE; CHIP; TRANSMIT; CHIP; GROOVE; BOTTOM; SURFACE; RECEIVE; CHIP

Derwent Class: P81; V07

International Patent Class (Main): G02B-006/122; G02B-006/42; G02B-006/43;

H04B-010/02

International Patent Class (Additional): H01L-031/0232; H01S-005/022

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): V07-G02; V07-G10C; V07-G10D

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EP 1188085
             Al E
                      G02B-006/43
   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
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CN 1330774
           Α
                      G02B-006/43
                   13 G02B-006/122 Based on patent WO 200036448
JP 2002532747 W
           В1
US 6625369
                      G02B-006/42
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        Transmitter chip (5)
        Wavequides (7,9)
       pp; 12 DwgNo 1/7
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Derwent Class: P81; V07
International Patent Class (Main): G02B-006/122; G02B-006/42; G02B-006/43;
  H04B-010/02
International Patent Class (Additional): H01L-031/0232; H01S-005/022
File Segment: EPI; EngPI
Manual Codes (EPI/S-X): V07-G02; V07-G10C; V07-G10D
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